

Air Conditioning & Refrigeration

Industry Training Criteria

January 2003

Air Conditioning and Refrigeration Industry

DOT CODES 637.261.026 and 637.261.010

1. Length of Training

Program sponsors shall establish a minimum five (5) years program of not less than 7,500 hours of on-the-job training.

2. Related Supplemental Instruction

The required prescribed courses of related and supplemental instruction shall be no less than 216 hours per year. This instruction must include at a minimum the related and supplemental training processes listed in Exhibit "A".

3. On the Job Training

Skills to be learned. See Exhibit "B"

4. Competency Testing

All apprentices must pass a competency test prior to the time of their classification advancement to the next higher period. The tests shall be based on all Related and Supplemental Instruction and manipulative skills tests based on laboratory assignments.

5. Completion Percentages

Program sponsors must have a 55% graduation rate of all apprentices that satisfactorily complete the program's probationary period.

6. Revisions

The schedule for revisions to the Air Conditioning and Refrigeration Industry training criteria shall be in accordance with Labor Code Section 212.01.

EXHIBIT "A"

Related and Supplemental Instruction Topics for Air Conditioning & Refrigeration Industry Criteria DOT CODE 637.261.010 And 637.261.026

RELATED AND SUPPLEMENTAL INSTRUCTION

1. Safety, First Aid, CPR
2. Thermodynamic theory, principles and practices.
3. Brazing, Soldering, Welding, Installation practices, rigging, piping
4. Basic Electricity/Electronics, Motors, Electrical Controls, Direct Digital Controls, Pneumatic controls and all other industry control systems
5. Customer Relations, Computer Skills
6. Compressors, Chillers, Air Flow, Hydronics, Direct Expansion, Heat Loads, Heating Systems
7. System Start Up, Energy Management, System Troubleshooting, Maintenance
8. Awareness of new and emerging technology

EXHIBIT "B"

WORK PROCESSES FOR AIR CONDITIONING & REFRIGERATION INDUSTRY TRAINING CRITERIA DOT CODE 637.261.026 AND 637.261.010

<u>WORK PROCESS</u>	<u>APPROXIMATE HOURS</u>
1. Shopwork, Preventative Maintenance, Parts & Delivery	1500
2. Trouble calls & Overhauls	3400
3. Piping, Rigging, Welding, Soldering & Brazing	800
4. Controls, Start-up & Testing	1800

Total Number of Required Hours for Graduation is 7500



**CALIFORNIA APPRENTICESHIP COUNCIL
PIPE TRADES INDUSTRY
Air Conditioning and Refrigeration Fitter
Advisory Committee**

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